

PRESSURE SENSOR DEVICE AND METHOD

ABSTRACT

[0054] Embodiments of the present invention provide a diaphragm pressure gauge with an interface printed circuit board ("PCB") contained in a reference pressure chamber of the diaphragm pressure gauge for receiving signals from one or more sensing elements in the reference pressure chamber. The sensing elements can comprise, for example, piezoelectric strain gauges, piezoresistive strain gauges, capacitor elements or other elements used in determining the deflection in the diaphragm. The interface PCB can be configured to connect the sensing elements to pass-through electrical connections in the housing of the reference pressure chamber. Thus, signals can be communicated from the sensing elements, through the interface board and out of the reference pressure chamber via the pass-through electrical connections.